BALOGH, Ferenc, dr.; BARANYAI, Elemer, dr.; CSATA, Sandor, dr.; ZADOR, Laszlo, dr.

Treatment of tumors of the urinary system with degranol. Magy. sebeszet 14 no.2:141-144 Ap '61.

1. A Budapesti Orvostudomanyi Egyetem Urologiai Klinikajanak (Igazgato: dr. Babics Antal egyetemi tanar, akademikus) kozlemenye.

(NITROGEN MUSTARDS ther) (UROGENITAL SYSTEM neopl)

ZADOR, Laszlo, dr.; BARANYAI, Elemer, dr.

Modern treatment of renal tuberculosis. Orv.hetil. 102 no.3:108-113 15 Ja'61.

1. Budapesti Orvostudomanyi Egyetem, Urologiai Klinika.
(TUBERCULOSIS RENAL ther)

ZADOR,L.; FURKA,I.; CSELLAR,M.

Substitution of the urethra by plastic tubing. Acta chir.acad. sci. Hung. 4 no.4:301-305 '63

1. Department of Urology (director: prof. A.Babics), University Medical School, Budapest, and Institute of Surgical Anatomy (director: prof. G.Bornemissza), University Medical School, Debrecen.

*

Urology

HUNGARY

ZADOR, Laszlo, Dr; Medical University of Budapest, Urological Clinic (director: BABICS, Antal, Dr) (Budapesti Orvostudomanyi Egyetem, Urologiai Klinika).

"On the Dissolution of Kidney Stones."

Budapest, Orvosi Hetilap, Vol 107, No 47, 20 Nov 66, pages 2220-2223.

Abstract: [Author's Hungarian summary] There are a few reports in foreign literature on the "spontaneous" diminution, dissolution of kidney stones. Similar reports could not be found in the domestic literature. A case is described; following removal of a coral calculus from the left kidney, there was a gradual diminution in the size of a similar one in the right kidney until merely a bean-sized stone remained a year later producing a more intensive shadow. The patient had not received medication aimed at dissolving the calculus. Some data from the foreign literature are discussed and a few thoughts are presented concerning the mechanism of stone formation. 2 Hungarian, 19 Western references.

1/1

ZADOR, Laszlo, dr.

Urogenital tuberculosis complicated by tuberculosis of other organs. Magy. sebesz. 17 no.3:186-189 Je'64

1. Budapesti Orvostudomanyi Egyetem Urologiai Klinika (Igazgato: Babics, Antal, dr. egyetemi tanar, akademikus) kozlemenye.

ZADOR, Laszlo, dr.; FRANG, Dezso, dr.

Problems of urogenital tuberculosis in old age. Orv. hetil.
105 no.24:1111-1114 14 Je'64

1. Budapesti Orvostudomanyi Egyetem, Urologiai Klinika.

ZADOR, Laszlo, az orvostudomanyok kandidatusa, egyetemi adjunktus

On the congress of urologists. Magy tud 70 no.4:279-280 Ap '63.

1. Budapesti Orvostudomanyi Egyetem.

ZADOR, Laszlo, dr.; BARANYAI, Elemer, dr.; TOTH, Mihaly, dr.

Pyrazinamide in urology. Magy. sebesz. 15 no.3:197-199 Je '62.

1. A Budapesti Orvostudomanyi Egyetem Urologiai Klinikajanak (Igazgato: Babics Antal dr. egyetemi tanar, akademikus) kozlemenye.

(TUBERCULOSIS UROGENITAL ther)
(PYRAZINAMIDE ther)

ZADOR, L.; BARANYAI, E.

On the therapy of renal tuberculosis. Acta chir. Acad. Sci. Hung. 3 no.2/3:293-302 '62.

1. Urologische Klinik (Direktor: Prof. Dr. A.Babics) der Medizinischen Universitat Budapest.
(TUBERCULOSIS RENAL ther) (NEPHRECTOMY)

ZADOR, Laszlo, dr.; HARANYAI, Elemer, dr.

On the pathogenesis of male genital tuberculosis. *Magy. sebesz.* 15 no.4:225-230 Jl '62.

1. A Budapesti Orvostudomanyi Egyetem Urologiai Klinikajanak (Igazgato: Babics Antal dr. egyetemi tanar, akademikus) kozlemenye.
(TUBERCULOSIS MALE GENITAL etiol)

ZADOR, Laszlo, dr.

Double kidney and double ureter with uretero-vaginal fistula. Orv. hetil. 103 no.17:794-795 29 Ap '62.

1. Budapesti Orvostudomanyi Egyetem, Urologiai Klinika.

(KIDNEYS abnorm) (URETERS abnorm)
(VAGINAL FISTULA case reports)
(FISTULA URINARY case reports)

ZADOR, Laszlo

Combines and scythes. Hung TU no.8:18-19 Ag '64.

ZADOR, S.

Studies on the growth phases of bacterial cultures. Acta biol Hung 12 no. 1:35-46 '61.

1. West London Hospital Medical School, London.

*

KHEYN, A.L.; ZADORA, G.I.; ALTUKHOV, P.Ya.

Effect of the geometry of injection and discharge systems on the efficiency of pumping gas into a water-bearing layer. Trudy VNIIGAZ no.11:346-356 '61. (MIRA 15:2)
(Gas,Natural—Storage)(Water,Underground)

YANKOVSKIY, I.P.; ZADORA, V.I.; ZAYKOVSKIY, I.M.; ROGOVIN, Ya.A.; GURIN, N., red.; VARENIKOVA, V., tekhn. red.

[Carpentry and joinery]Plotnichnye i stoliarnye raboty. Minsk, Gosizdat BSSR, 1962. 235 p. (MIRA 15:12)
(Carpentry) (Joinery)

BUCZOLICH, Antal; ZADORI, Antal

Optimum distribution of the heating surface of the multistage evaporator. Cukor 15 no.11:309-312 N '62.

1. Petohazi Cukorgyar.

ZADORI, Antal

The structure, instrumentation and treatment of the EMA-manufactured tower diffusion. Cukor 18 no.2:61 3 of cover F '65.

ZADORI, Antal

Sack clamping device for automatic scale. Cukor 15 no.9:264-265 S '62.

1. Petohazi Cukorgyar

ZADORI, Ferenc, technikus (Budapest XVII., Rakoshegy, Kolcsey u.18)

Is it any hope to improve spare part supply; an open letter to the Iron and Technical Directorate, Ministry of Domestic Trade. Radiotechnika 10 no.8:2 of cover Ag '60.

ZADORIN, B.M., ekonomist

"Economic analysis of the activity of railroad construction organizations" by V.B. Babelian. Reviewed by B.M. Zadorin. Transp. stroi. 11 no.7:58-59 Jl '61. (MIRA 14:7)
(Railroads--Economics of construction)
(Babelian, V.B.)

ZADORIN, B.M.; KOLTUNOVA, M.P., red.; VASIL'YEVA, N.N., tekhn. red.

[Finance and the economic analysis of transportation construction] Finansy i ekonomicheskii analiz v transportnom stroitel'stve. Moskva, Transzheldorizdat, 1963. 70 p. (MIRA 17:1)

LEVIN, B.I.; ANPILOGOV, R.G.; BOGATYREV, A.F.; BRYKIN, S.V.; GOL'DMAN, M.S.; DAVYDOV, G.V.; ZADORIN, B.M.; ZERENINOV, A.M.; LAPUSHKIN, A.D.; LEIBEV, V.I.; MURAV'YEV, V.I.; OGANESOV, I.S.; PETROV, N.I.; SIDORIN, V.K.; SOLDATOV, Ye.G., glavnyy red.; KARAMYSHEV, I.A., red.; PESKOVA, L.N., red.; KHITROV, P.A., tekhn.red.

[Manual for studying the economics of construction in the transportation industry] V pomoshch' izuchaiushchim ekonomiku transportnogo stroitel'stva. Moskva, Gos.transp.zhel-dor. izd-vo, 1959. 271 p. (MIRA 12:7)
(Construction industry) (Transportation)

ZADORIN, L.

Teaching metal cutting. Prof.-tekh.obr. 11 no.5:16 Ag '54. (MLRA 7:9)

1. Direktor remeslennogo uchilishcha No. 5 (Yaroslavskaya oblast')
(Metal cutting--Study and teaching)

ZADORIN, L.A. (g. Shcherbakov)

For a closer connection with the factory. Prof.-tekh.obr. 13 no.2:5-6 F '56. (MLRA 9:5)

1. Direktor remeslennogo uchilishcha No. 5.
(Shcherbakov--Technical education)

ZADORIN, L.

Factory and school. Prof.-tekh.obr. 15 no.10:13-14 O '58.
(MIRA 11:11)

1. Direktor tekhnicheskogo uchilishcha No.6, Rybinsk, Yaroslavskaya oblast'.

(Rybinsk--Technical education)

AUTHOR: Zadorin, L., Director SOV-27-58-10-8/31

TITLE: Factory and School (Zavod i uchilishche)

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1958, Nr 10, pp 13-14 (USSR)

ABSTRACT: The article deals with the correlation between students of the technical school Nr 6 and a printing plant. By producing various polygraphical machines, the students of the technical school gathered valuable practical experience and became skilled workers.

ASSOCIATION: Tekhnicheskoye uchilishche Nr 6, Yaroslavskaya oblast' (Technical School Nr 6, Yaroslavl' Oblast)

1. Personnel—Training

Card 1/1

USLONTSEV, B.; YUROVSKIY, V. [IUrovs'kyi, V.]; ZADORIN, M.

Using low-line methods in constructing livestock buildings in Crimean villages. Sil'.bud. 10 no.8:6-9 Ag '60. (MIRA 13:8)

1. Nachal'nik gruppy sektora tekhnologii i organizatsii sel'skogo stroitel'stva Akademii stroitel'stva i arkhitektury USSR (for Uslontsev). 2. Nachal'nik upravleniya stroitel'stva Krymskogo oblsel'khozupravleniya (for Yurovskiy). 3. Glavnyy inzhener Simferopol'skogo mezhkolkhozstroya (for Zadorin).

(Crimea—Farm buildings)

ZADORIN, N.N.

Incubation of eggs of the Atlantic and Scandinavian herring in the sea. Trudy PINRO no.14:53-54 '62.

(MIRA 17:10)

Zadorin, V.N

ZADORIN, V.N.

So-called spontaneous rupture of the small intestine. Sov.med. 21 Supplement:29 '57. (MIRA 11:2)

1. Iz fakul'tetskoy khirurgicheskoy kliniki Chelyabinskogo meditsinskogo instituta.
(INTESTINES--DISEASES)

ACC NR: AP7006176 SOURCE CODE: UR/0362/67/003/001/0003/0015

AUTHOR: Zadorina, F. K.; Pokrovskiy, G. B.; Sidorov, V. V.; Teptin, G. M.; Fakhrutdinova, A. M.

ORG: Kazan' State University (Kazanskiy gosudarstvennyy universitet)

TITLE: Atmospheric motions at altitudes of 80--100 km as determined by radio observations of meteors in Kazan'

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 3, no. 1, 1967, 3-15

TOPIC TAGS: ~~atmosphere,~~ atmospheric disturbance, atmospheric circulation, wind velocity, radar observation, meteor observation

ABSTRACT: Data on the yearly cycle of wind velocity variations at altitudes of 80—100 km obtained from radar observations of meteors are presented. Harmonic analysis of atmospheric motion was made considering the statistical weights of mean hourly velocity values. It was concluded that in 1964 the total atmospheric circulation intensity was lower than during previous years, although basic features relevant to directional changes in air motion remained the same. During winter months, an increase in turbulence

Card 1/2 UDC: 551.55:551.510.535.4

ACC NR: AP7006176

intensity occurred simultaneously with an increase in the amplitude of diurnal turbulence variations. The characteristic horizontal extent of large-scale turbulences was found to be about 20 km as compared with 100 to 200 km reported earlier by other researchers. Orig. art. has: 8 figures, 2 tables and 1 formula. [OS]

SUB CODE: 04,03/SUBM DATE: 16May66/ ORIG REF: 007/ OTH REF: 004/
ATD PRESS: 5116

Card 2/2

ZADORINA, S., studentka V kursa.

Metallometric survey. Sbor.stud.rab. SAGU no.8:33-36 '54.
(MLRA 9:5)

(Prospecting--Geophysical methods)

ZAGORINA, Ye.S.; CHERNOVA, N.N.

Effect of temperature and moisture on some mechanical properties of larch wood. Der. prom. 14 no.10:7-8 O '65. (MIRA 18:12)

1. Tsentral'nyy nauchno-issledovatel'skiy mekhanicheskoy obrabotki drevesiny.

BOLDYREVOV, N.P. [deceased]; ZADORINA, Ye.S.

Mechanical characteristics of wood particle boards in their compression perpendicular to the plane of pressure. Der. prom. 15 no.1:17-18 Ja '66. (MIRA 19:1)

ZADORNOV, N.; SOLOMONOV, A., red.; SILIN', V.[Silins,V.], tekhn. red.

[In sunny England] V solnechnoi Anglii. Riga, Latviiskoe gos. izd-vo, 1960. 105 p. (MIRA 14:12)
(Great Britain—Description and travel)

ZADOROGIN, M.P., inzh.; SKRITSKIY, V.Ya., inzh.

Conference on the use of hydraulic transmissions and hydraulic control in the machinery industry. Vest.mashinostr. 45 no.11:84-85 N '65. (MIRA 18:12)

ZADOROVA, T.D.

Pathohistological changes in the mucosa of the nose and of its accessory sinuses in influenza in infants. Vest. otorinolar., Moskva 15 no.2:23-28 Mar-Apr 1953. (CIML 24:3)

1. Scientific Associate. 2. Of the Morphology Department (Head -- Prof. Ya. A. Vinnikov), Scientific-Research Institute of the Ear, Throat, and Nose (Director -- Honored Worker in Science Prof. V. K. Trutnev), Ministry of Public Health RSFSR.

Name : ZADOROVA, T. D.

Dissertation : Histological changes in the mucosa of the nose and accessory sinuses in influenza and pneumonia in infants

Degree : Cand Med Sci

Defended At : Min Health RSFSR, Moscow Medical Stomatological Inst

Publication Date, Place : 1956, Moscow

Source : Knizhnaya Letopis' No 5, 1957

TOLSTOY, M.P.; SHCHERBAKOV, A.V.; YUDIN, S.S.; BELYAYEV, I.V.;
ZADOROZHKO, L.I.; IVANOV, V.K.; KARPOVA, A.S.

Reviews. Izv. AN SSSR. Ser. geol. 30 no.7:127-133 Jl '65.
(MIRA 18:7)

1. Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya imeni Timiryazeva i Geologicheskiy institut AN SSSR (for Tolstoy, Shcherbakov). 2. TSentral'naya geologo-geofizicheskaya ekspeditsia Severo-Vostochnogo geologicheskogo upravleniya, Magadan (for Yudin, Belyayev, Zadorozhko, Ivanov, Karpova).

AGARYSHEV, D.F., inzh.; ZADOROZHNAYA, D.I., inzh.

Modernization of the MD-1250 extractor. Masl.-zhir.prom. 28 no.11: 33-34 N '62. (MIRA 15:12)

1. Zaporozhskiy maslozhirovoy kombinat.
(Zaporozh'ye—Oil industries—Equipment and supplies)

DOBRUSKINA, Sh.R.; SANDLER, N.I.; ZADOROZHNAYA, L.K. [Zadorozhnia, L.K.]
FEL'DMAN, E.I.; YUNASH, V.M.

Microalloying of low-carbon manganese steel with hafnium. Dop. AN URSR no. 12:1595-1599 '64. (MIRA 18:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov. Predstavleno akademikom AN UkrSSR V.N.Svechnikovym [Svechnikov, V.M.].

L 9611-66 EWT(m)/EWP(w)/EPF(n)-2/EWA(d)/m/EWP(t)/EWP(z) IJP(c)

TITLE: Effect of carbon and manganese content on the properties of

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 11, 96

TOPIC TAGS: niobium steel, carbon steel, manganese steel, tensile strength

ABSTRACT: The article presents

as the effect of the addition of Nb on the strength characteristics. Increasing the Nb content from 0.8 to 2% in steel containing 0.11% C and 0.04% Mn enhances the steel's strength by 15-20%. The addition of small amounts of Nb (0.02-0.05%) in pearl-

Card 1/2

UDC: 669.15-194'74'293

L 9611-66

ACC NR: AP5027706

6

cularly beneficial to steels of the 10G and 10G2 types. Since the added Sb -- as shown by chemical analysis of the carbide phase -- is present not only in the NbC considerably increases the strength of the

[illegible] duces proneness to deformation aging in hot-rolled manganese steels, which is of major significance to their use in welded units. Orig. art. has: 1 figure.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 000/ OTH REF: 000

Card 2/2

DOBRUSKINA, Sh.R.; SANDLER, N.I.; ZADOROZHNAYA, L.K.; FEL'DMAN, E.I.; YUNASH, V.M.

Hafnium as an inoculator of low-carbon steel. Sbor.trud. UNIIM no.11:262-266 '65. (MIRA 18:11)

ZADOROZHNAYA, L.K.; SANDLER, N.I.; DOBRUSKINA, Sh.N.; FELDMAN, L.I.

Effect of carbon and manganese content on the properties of low-alloy steel with a small addition of niobium. [illegible]. I term. obr. met. no.21:23-24 N '65. (MIRA 18:11)

KURMANOV, M.I., kand. tekhn. nauk; DOBRUSKINA, Sh.R.; ZADOROZHNAYA, L.K.; RABINOVICH, A.G.

Niobium in low-alloy steels. Sbor. trud. UNIIM no.9:405-419 '64. (MIRA 18:1)

SANDLER, N.I.; DOBRUSKINA, Sh.R.; ZAYKOV, S.T.; ZADOROZHNAYA, L.K.; FEL'DMAN, E.I.; ZHIGULIN, V.I.; RUBINSKIY, P.S.; ASNIS, A.Ye.

Low alloy manganese steel with niobium smelted in an oxygen-blown converter. Stal' 25 no.2:160-162 F '65. (MIRA 18:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov; zavod im. Petrovskogo i Institut elektrosvarki im. Ye.O. Patona AN UkrSSR.

[illegible], V., [illegible]., BORODICH, V., [illegible].; [illegible], P., [illegible]; [illegible], A., [illegible].; [illegible],

Technological innovations. Gruzhd. sv. 22 no.8:22-23 Ag '65. (MIRA 18:8)

1. Shkola vysshey letnoy podgotovki, Ul'yanovsk (for Zadoroshnova). 2. Krasnoyarskiye ekspluatatsionnoremontnyye masterskiye, Krasnoyarsk (for Popov). 3. Starshiy inzhener otdela mezhdunarodnykh sooruzheniy Privolzhskogo upravleniya, Kuybyshev (for Ivalyashvili).

L 27614-66 EWT(m)/T/EWA(d)/EWP(w)/EWP(t)/ETI IJP(c) JD/JG

ACC NR AP6018879 SOURCE CODE: UR/0133/66/000/003/0264/0266

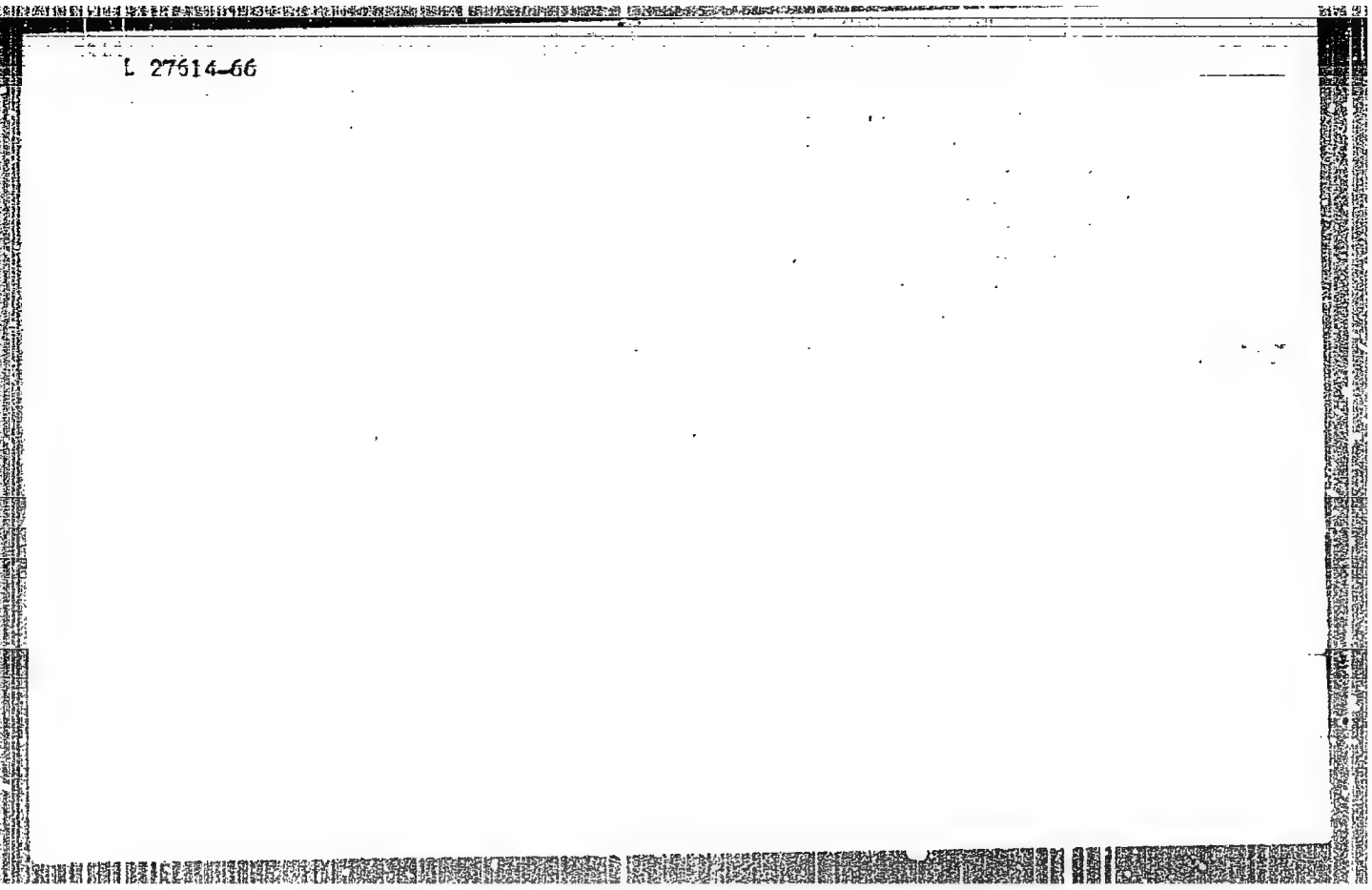
TITLE: Effect of rolling temperature on the properties o. low-alloy manganese steel with niobium

SOURCE: Stal', no. 3, 1966, 265-266

TOPIC TAGS: low alloy steel, manganese steel, niobium containing alloy, brittleness,

Grade	C	Mn	Si	S	P	Nb
A 10G2	0.08	1.35	0.27	0.021	0.018	—
B 10G2B	0.09	1.43	0.47	0.026	0.035	0.04

Card 1/2 UDC: 669.15.004.12



L 45898-66 EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AR6016752 SOURCE CODE: UR/0277/66/000/001/0009/0009

AUTHOR: Dobruskina, Sh. R.; Gandler, M. I.; Zadorozhnaya, L. K.; Fel'dman, E. I.; Yunash, V. M.

TITLE: Hafnium as a modifier in low-carbon steel

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Gidroprivod, Abs. 1.48.53

REF SOURCE: Sb. tr. Ukr. n.-i in-t metallov, vyp. 11, 1965, 262-266

TOPIC TAGS: hafnium, low carbon steel, austenite

ABSTRACT: The authors study the effect of 0.023 and 0.052% Hf on the properties of 15G2 steel. The steel was subjected to mechanical tests in the hot-rolled, quenched and annealed states. The addition of Hf in the given quantities has no considerable effect on the mechanical properties and microstructure, but retards austenite grain growth noticeably at temperatures >1150°C. Bibliography of 2 titles. I. Strebkov. [Translation of abstract]

SUB CODE: 11

Card 1/1 UDC: 669.297:669.14.018

L 04312-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6018390 (N) SOURCE CODE: UR/0133/66/000/006/0540/0543

AUTHORS: Sandler, N. I.; Dobruskina, Sh. R.; Zadorozhnaya, L. K.; Bondarev, V. P.; Fel'dman, E. I.

ORG: Ukrainian Scientific Research Institute for Metals (Ukrainskiy n.-i. institut metallov); Factory "Red October" (Zavod Krasnyy Oktyabr')

54
B

TITLE: Low alloy manganese sheet steel containing niobium

SOURCE: Stal', no. 6, 1966, 540-543

TOPIC TAGS: alloy steel, niobium, sheet metal, metallurgic research / 10G2B alloy steel

ABSTRACT: The effect of small additions (0.033% and 0.035%) of niobium to steel 10G2B on the mechanical properties and microstructure of the latter was investigated. The investigation supplements the results of an earlier study by N. I. Sandler, Sh. R. Dobruskina, and S. T. Zaykov i dr. (Stal', 1965, No. 2). The specimens were obtained from 60- and 150-ton Martin steel furnaces of the "Red October" steel plant. The experimental results are presented in graphs and tables (see Fig. 1). It was found that steel 10G2B with 0.033% Nb smelted in 60- and 150-ton Martin furnaces possesses satisfactory mechanical properties and may be recommended for use in construction of agricultural machines and automobiles.

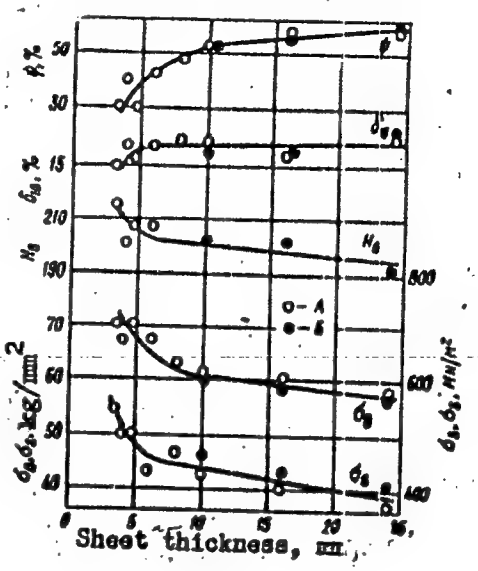
UDC: 669.15-194:669.74:669.293

Card 1/2

L 04312-67

ACC NR: AP6018390

Fig. 1. Dependence of the mechanical properties of steel 10G2B, ingots A and B, on the sheet thickness. Ingot A: obtained from 60-ton, and B—from 150-ton Martin furnaces respectively.



Orig. art. has: 2 tables and 6 graphs.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004

Card 2/2 gd

FILIPPOV, S.N. [deceased]; BEDA, N.I.; ALIKOV, I.G.; RYZHKOV, P.Ya.; LEVIN, P.G.; GORYUCHKO, I.G.; ZADOROZHNAYA, M.A.; VOLKOVA, L.A.

Building up steel rools. Biul. TSNIICHM no.22:54-55 '57.
(MIRA 11:5)

1. Zavod im. Petrovskogo.
(Electric welding) (Rolls)

KALYUZHNAYA, L.D.; ZADOROZHNAYA, N.A.; OZERYANSKAYA, N.M.

Distribution of actinomycetes with antiviral characteristics in the soils of the Ukraine. Mikrobiologiia 32 no.3:507-512 My-Je '63 (MIRA 17:3)

1. Kiyevskiy institut epidemiologii i mikrobiologii.

ZADOROZHNAYA, N.M.

Stratigraphy of Ordovician sediments in the southwestern extremity of the Kurtushibinskiy Range. Trudy VSEGEI 58:43-48 '61.
(MIRA 15:5)

(Kurtushibinskiy Range—Geology, Stratigraphic)

ZADOROZHNAYA, S.M.

Altering the operating principle for duct furnaces. Stek.i ker. 12 no.8:27-29 Ag '55. (MLRA 8:11)
(Glass manufacture) (Furnaces)

KAGAN, Ya.I.; OSTROVSKAYA, E.L.; ZADOROZHNAYA, T.A.; NESMIYAN, L.I.

Errors in the thermal control of soldering. Izm. tekh. no.11: 18-21 N '65. (MIRA 18:12)

ZADAROZHNAYA, T. A.

KOROL', B.A., inzhener; ZADOROZHNAYA, T.A., inzhener.

Assembly line production of lasts. Leg.prom. 14 no.8:44-46 Ag '54.
(Shoe industry) (MLRA 7:8)

KOROL', B.A., glavnyy inzhener; ZADOROZHNAYA, T.A.

We need a new all-Union state standard for shoe lasts. Leg.prom.15 no.8:40-41 Ag '55. (MLRA 8:10)

(Shoe industry)

KOROL', B.A.; ZADOROZHNAYA, T.A.

Increase the output of extension-type lasts. Leg. prom. 18 no.9:50-53 S '58. (MIRA 11-10)
(Shoe manufacture)

S/138/62/000/006/007/008
A051/A126

AUTHORS: Zadorozhnaya, Z.S., Karaseva, N.P.

TITLE: Analysis of raw and synthetic siloxane rubbers

PERIODICAL: Kauchuk i rezina, no. 6, 1962, 51 - 53

TEXT: Quick and reliable quantitative methods were developed at the Sverdlovsk RTI Plant, for the analysis of total silicon content in raw siloxane rubber and its resultant synthetic rubbers filled with silica gel, as well as for the content of the silica gel, (SiO_2). The silicon content was determined by successive acidification, first with concentrated sulfuric acid, then concentrated nitric acid and, finally, with concentrated nitric acid containing ammonium persulfate. The raw and synthetic rubbers quickly decompose completely and the SiO_2 remains in the solution. About four hours are needed to make the silicon-content analysis by the new method. Results are presented in a table. In determining the SiO_2 content, the molecular weight divided by four is taken to be the gram-equivalent. The calculations are made with the formula:

$$K_2SiF_6 + 4\ KOH = 6\ KF + SiO_2 + 2\ H_2O$$

Card 1/2

Analysis of raw...

S/138/62/000/006/007/008
A051/A126

Results of the silica gel analysis are given in a table. About nine hours are needed for this analysis. There are 2 tables.

ASSOCIATION: Sverdlovskiy zavod rezinovykh tekhnicheskikh izdeliy (Sverdlovsk Plant of Rubber Commercial Articles)

Card 2/2

SOV/44 - 58 - 4 - 3201

Translation from: Referativnyy Zhurnal, Matematika, 1958, Nr 4, p 121 (USSR)

AUTHOR: Zadorozhniy, A.M.

TITLE: On the Application of the Triangle of Traces to the Solution of Problems of Descriptive Geometry (O primenenii treugol'nika sledov k resheniyu zadach nachertatel'noy geometrii)

PERIODICAL: Tr. Krasnodarsk. in-ta pishch. prom-sti, 1956, Nr 14, pp 47-58

ABSTRACT: A study is made of the application of the triangle of traces to the solution of elementary problems of orthogonal axonometry. The methods of solution are generally known.

V. N. Zhuravleva

Card 1/1

SAY, Nikolay Petrovich [Sai, M.P.]; ZADOROZHNIY, V.K. [Zadorozhnii, V.K.], kand.ekonnauk, otv.red.; SKRIPNIK, V.T. [Skrypnyk, V.T.], red.

[Consumers cooperative societies in the Ukraine during the seven-year plan] Spozhyvcha kooperatsiia Ukrainy v semyrichtsi. Kyiv, 1961. 49 p. (Tovarystvo dlia poshyrennia politychnykh i naukovyskh znan' Ukrains'koi RSR. Ser.3, no.10) (MIRA 14:11)
(Ukraine--Cooperative societies)

MADZHAKOV, G. akad.; ANTONOV, A.; ZADOROZHNYI, G.

Certain conditions determining the preservation in the dark of photopolarization in photoelectretes. Doklady BAN 14 no.4:329-332 '61.

KASHUKEEV, N.; ANTONOV, A.; ZADORZHNYI, G.

On stationary distribution of electric load in photoelectretes. Doklady BAN 14 no.4:333-336 '61.

1. Predstavleno akad. G. Nadzhakovym.

ZADOROZHNYY, A.A. (Baltiysk, Kaliningradskoy oblasti, Novaya ul., d.25, kv.2)

Late results of treatment of closed fractures of the long tubular bones. Ortop., travm. i protez. no.8:66-70 '62. (MIRA 17:10)

1. Iz kafedry travmatologii i ortopedii (nachal'nik - prof. I.L. Krupko) Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad.

17(8)

SOV/177-58-4-23/32

AUTHOR: Zadorozhnyy, A.A., Captain of the Medical Corps

TITLE: The Transhipment of Stretcher-bound Patients From one Ship to Another on the Open Sea (O peredache nosilochnykh bol'nykh s korablya na korabl' v otkrytom more)

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 4, pp 80-81(USSR)

ABSTRACT: The article describes the transport of a post-operative patient, lying on a Stille-stretcher, from one ship to another in the North Sea at a wind velocity of 12 m/sec and waves by means of a transportation rope. There are 3 diagrams.

Card 1/1

D'YAKOV, D.D., kandidat tekhnicheskikh nauk, redaktor [deceased]; ZADOROZHNYY, A.I., redaktor; RODOMANOV, P.S., redaktor; TIKHONOV, S.N., redaktor; KONOVALOVA, Ye.K., tekhnicheskiy redaktor

[Pulse radionavigation aids. Translated from the English] Impul'snye radionavigatsionnye ustroistva. Perevod s angliiskogo. Pod red. D.D. D'iakova. Moskva, Voen. izd-vo Ministerstva obor. SSSR, 1955. 487 p. (MLRA 10:1)

1. Massachusetts Institute of Technology. Radiation Laboratory. (Loran) (Radar)

ZADOROZHNYY, A.I., inzhener-mayor

Radio landing control equipment. Vest.Vozd.Fl. no.2:90-94 F '60. (MIRA 13:7)
(Instrument landing systems)

ZADOROZHNYY, A.M.

Constructing a rectangular axonometric projection of a circle in any plane. Trudy KIPP no.16:99-103 '57. (MIRA 12:7)

1. Krasnodarskiy institut pishchevoy promyshlennosti, Mekhanicheskiy fakul'tet, kafedra nachertatel'noy geometrii i grafiki.
(Axonometric projection)

ZADOROZHNYY, A.M.

Methods for determining the angle of coordinate axes with the axonometric plane of projections. Trudy KIPP no.16:105-108 '57. (MIRA 12:7)

1. Krasnodarskiy institut pishchevoy promyshlennosti, Mekhanicheskiy fakul'tet, kafedra nachertatel'noy geometrii i grafiki. (Axonometric projection)

LECHIN, M.I., inzh.; LAZ'KO, A.D., inzh.; ZADOROZHNYY, A.Ye., inzh.

Donets Basin mine builders are introducing nonrolled waterproofing. Shakht. stroi. 8 no.8:16-17 Ag '64. (MIRA 17:9)

1. Artemovskiy trest shakhtnogo stroitel'stva (for Lechin, Zadorozhnyy).
2. DonpromstroyNIIproyekt (for Laz'ko).

ZADOROZHNYY, B.A., dots., otv. red.; VEYNEROV, I.B., prof., zam. otv. red.; BRAILOVSKIY, A.Ya., kand. med. nauk, red.; BAZYKA, A.P., red., st. nauchnyy sotr.; BOGDANOVICH, S.N., dots., red.; GRZHEBIN, Z.E., prof., red.; POPOV, I.S., prof., red.; POTOTSKIY, I.I., prof., red.; SHTEYN, A.A., prof., red.; GITSHTEYN, A.D., tekhn. red.

[Transactions of the Second Congress of Dermatovenereologists of the Ukrainian S.S.R.] Trudy S"ezda dermato-venerologov Ukrainskoi SSR. 2d, Kharkov, 1959. Kiev, Gos. med. izd-vo USSR, 1960. 475 p. (MIRA 15:4)

1. S"ezd dermato-venerologov Ukrainskoy SSR. 2d, Kharkov, 1959. (SKIN--DISEASES) (VENERAL DISEASES)

ZADOROZHNYY, B.A., dotsent; ASKOCHINSKAYA, V.S. (Khar'kov)

Late results of radioactive phosphorus treatment of some dermatoses. Vrach.delo no.1:87 '60. (MIRA 13:6)

1. Ukrainskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut.
(PHOSPHORUS--ISOTOPES) (SKIN--DISEASES)

ZADOROZHNYY, B. A., dotsent; BAZYKA, A. P., starshiy nauchnyy sotrudnik

Ethylene oxide polymers in dermatology; survey of the literature. Vest. derm. i ven. 34 no.1:17-21 Ja '60. (MIRA 14:12)

1. Iz Ukrainskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta.

(SKIN--DISEASES) (ETHYLENE OXIDE)

LEVIN, Mark Mironovich, prof.; ZADOROZHNYY, B.A., dotsent, red.;
BELOUSOV, V.A., prof., red.; BOKARIUS, N.N., prof., red.;
VOROB'YEV, F.P., assistent, red.; GRISHCHENKO, I.I., prof., red.;
DERKACH, V.S., prof., red.; KORSUN', A.Ya., dotsent, red.;
KOSHKIN, M.L., prof., red.; KUDINTSEV, V.I., dotsent, red.;
PIKIN, K.I., prof., red.; PRIKHOD'KOVA, Ye.K., prof., red.;
POPOV, I.D., dotsent, red.; SOLOV'YEV, M.N., prof., red.;
SHTEYNBERG, S.Ya., prof., red.; KHARCHENKO, N.S., prof., red.

[Repeated surgery in stomach diseases following operations]
Povtornye operatsii pri zabolevaniiakh operirovannogo zheludka.
Khar'kov, Izd-vo Khar'kovskogo gos.univ., 1961. 177 p.
(Kharkov. Medychnyi institut. Trudy, vol.58). (MIRA 16:2)
(STOMACH—SURGERY)

POPOV, I.S., prof.; ZADOROZHNYY, B.A., dotsent; MISHCHENKO, L.I.

Stroke method for the isolation of unicellular cultures of yeast and yeastlike fungi free from bacteria. Vest.derm.i ven. no.8:39-41 '62. (MIRA 15:9)

1. Iz kafedry dermatologii (zav. - prof.I.S. Popov) Khar'kovskogo meditsinskogo instituta (dir. - dotsent B.A. Zadorozhnyy).

(YEASTS) (FUNGI)

ZADOROZHNYY, B.A., dotsent; MADIYEVSKAYA, N.N., starshiy nauchnyy sotrudnik (Khar'kov)

Some biochemical changes in the skin and blood of rabbits during irradiation of a limited section of the cutaneous tegmen with radioactive phosphorus (P^{32}). Vrach.delo no.1:23-28 Ja '63. (MIRA 16:2)

1. Ukrainskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut.

(SKIN) (PHOSPHORUS ISOTOPES--PHYSIOLOGICAL EFFECT)
(BLOOD--ANALYSIS AND CHEMISTRY)

ZADOROZHNYY, B.A. (Khar'kov); DERMAN, G.L., prof., nauchnyy rukovoditel'

Morphological changes in the skin and internal organs of rabbits during local β-irradiation with radioactive phosphorus. Vrach. delo no.8:66-72 Ag'63. (MIRA 16:9)
(PHOSPHORUS ISOTOPES—PHYSIOLOGICAL EFFECT)

KRASOVITSKIY, B.M.; PEREYASLOVA, D.G.; ZADOROZHNYY, B.A.; VINNITSKAYA, Yu.M.; ISHCHENKO, I.K.

Certain optical properies of 4-chloro-2-sulfobenzalacetophenone. Dokl. AN SSSR 160 no.1:123-124 Ja '65.

(MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov, stsintillyatsionnykh materialov i osobo chistykh khimicheskikh veshchestv. Submitted July 3, 1964.

ORG: None

groups

SOURCE: Optika i spektroskopiya, v. 19, no. 4, 1965, 551-554

vibration spectrum

$$\frac{\Delta\nu_{C=0}}{\nu_{C=0}} = -K_{C=0}E_{hb}$$

UDC: 535.3:8.42

ACC NR. AP5029299

in which the proportionality coefficient K_{ad} is equal to 4×10^{-1} mole kcal^{-1}. The established correlation is not general and applies only to the special case of hydrogen bond of the type C=O ...H-O in a series of aromatic carbonyl compounds and [illegible] express [illegible] a patently [illegible]

[illegible] 2 [illegible] BM AIE [illegible] REF 003 [illegible]

Card 2/2

KHITROV, V.A.; ZADOROZHNYY, V.P.; SMOL'YANINOV, I.S.; SHATALOVA, V.I.; DUGIN, N.A.

Activation energy and temperature dependence of the rate of the corrosion of metals dissolving in nonoxidizing acids. Izv.Vor.gos.ped.inst. 47:78-90 '64.

(MIRA 18:11)

PYATIKOP, A.I., dots., otv. red.; POTOTSKIY, I.I., prof., zam. otv. red.; TSERAIDIS, G.S., st. nauchn. sotr., red.; ZADOROZHNYY, B.A., dots., red.; KALANTAYEVSKAYA, K.A., prof., red.; YEVTUSHENKO, G.I., dots., red.; BOGDANOVICH, S.N., dots., red.

[Occupational diseases and skin collagenoses] Professional'nye zabolevaniia i kollagenozy kozhi. Kiev, Zdorov'ia, 1965. 211 p. (MIRA 18:7)

1. Ukrainskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut. Problemnaya komissiya "Nauchnyye osnovy dermato-venerologii". 2. Kafedra kozhnykh bolezney Kiyevskogo meditsinskogo instituta (for Pototskiy). 3. Ukrainskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut (for TSeraidis).

ZADOROZHNYY, B.A.

Intramolecular hydrogen bonds in excited states of some o-disubstituted naphthalenes. Zhur. fiz. khim. 39 no.8: 1944-1948 Ag '65. (MIRA 18:9)

1. Khar'kovskiy institut monokristallov.

05452
SOV/120-59-3-23/46

AUTHORS: Kilimov, A. P., Nagornaya, L. L. and Zadorozhnyy, B. A

TITLE: An Adaptor to the SF-4 Spectrophotometer for use in Measuring Fluorescence Spectra (Pristavka k spektrofotometru SF-4 dlya izmereniya spektrov lyuminestsentsii)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3, pp 105-107 (USSR)

ABSTRACT: Fig 1 illustrates the instrument; here 1 is a high-pressure mercury arc, 2 is a cylindrical quartz lens, 3 is a liquid filter, 4 is the sample, 5 is a holder, 6 is a mirror, 7 is the entrance slit of the monochromator, and 8 is a case. The filter is a cell fitted on one side with a quartz window, on the other with a special glass window, and filled with a saturated aqueous solution of nickel sulphate. This filter isolates (mainly) the 253 and 313 mμ lines. Fig 2 illustrates the holder, which would appear to be meant for use with solids or liquids. Fig 3 illustrates the photomultiplier detector (the original SF-4 uses a simple vacuum photocell). Fig 4 shows the spectral sensitivity of the monochromator with photomultiplier; Fig 5 shows fluorescence curves

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05452
SOV/120-59-3-23/46

An Adaptor to the SF-4 Spectrophotometer for use in Measuring Fluorescence Spectra

(1 - naphthalene, 2 - phenanthrene, 3 - tetraphenyl-butadiene). There are 5 figures and 2 references, 1 of which is Soviet and 1 English.

ASSOCIATION: Khar'kovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskikh reaktivov (Khar'kov Branch of the All-Union Chemical Reagents Research Institute)

SUBMITTED: January 14, 1957

Card 2/2

SOV/51-6-3-13/28

AUTHORS: Naboykin, Yu.V., Pavlova, Ye.N. and Zadorozhnyy, B.A.

TITLE: Some Peculiarities of Luminescence of Ortho-Disubstituted Aromatic Hydrocarbons. I The Absorption and Fluorescence Spectra of Anilides of Salicylic and Ortho-methoxybenzoic Acids (Osobennosti lyuminestsentsii orto-dizameshchennykh aromaticheskikh uglevodorodov. I Spektry pogloshcheniya i spektry fluorestsentsii anilidov salitsilovoy i orto-metoksibenzoynoy kislot)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 3, pp 366-371, (USSR)

ABSTRACT: The absorption spectra in the ultraviolet region were obtained using a spectrophotometer SF-4. The absorption spectra in the infrared region were recorded using a spectrometer IKS-11 with a LiF prism. The fluorescence spectra were obtained using a monochromator UM-2 and a photomultiplier FEU-17. Fluorescence was excited using a PRK-4 lamp. The substances studied were prepared by condensation of salicylic or ortho-methoxybenzoic acid with aniline. Ortho-methoxybenzoic anilide was also obtained by methylation of salicylic anilide. The

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Some Peculiarities of Luminescence of Ortho-Disubstituted Aromatic Hydrocarbons. I.

anilides prepared in these two ways had the same properties. The structural formulae of the two anilides show that formation of an intramolecular hydrogen bond is possible in the salicylic acid anilide, but not in the ortho-methoxybenzoic anilide. The absorption spectra of the two anilides dissolved in ethanol (curves 1) and heptane (curves 3) are shown in Figs.1-2. Fig.3 shows how the absorption spectrum of the salicylic anilide depends on the concentration of NaOH in the ethanol solution. Fig.4 shows the fluorescence spectra of the salicylic anilide dissolved in ethanol (curve 1), heptane (curve 2) and polystyrene (curve 3). From the results obtained the authors conclude that the long-wavelength fluorescence of salicylic acid anilide is due to intramolecular hydrogen bonds in this substance, the presence of which was predicted from its structural formula. The short-wavelength fluorescence of the same anilide in alcohols is related to ionisation of molecules and depends on the pH of the solution (Fig.5).

SOV/51-6-3-13/28

Some Peculiarities of Luminescence of Ortho-Disubstituted Aromatic Hydrocarbons. I.

There are 8 figures and 6 references, of which 3 are Soviet, 2 German and 1 English.

SUBMITTED: January 13, 1958

Card 3/3

24(7), 5(3) SOV/51-6-4-15/29

AUTHORS: Naboykin, Yu. V., Zadoroshnyy, B.A. and Pavlova, Ye. N.

TITLE: Some Peculiarities of Luminescence of Ortho-Disubstituted Aromatic Hydrocarbons. (Osobennosti lyuminestsentsii orto-dizameshchennykh aromaticheskikh uglevodorodov). II. Fluorescence of the Methyl Esters of 2,3-oxynaphthoic and 2,3-methoxynaphthoic acids. (II. Fluorestsentsiya metilovogo efira 2,3-oksinaftoynoy i 2,3-metoksinaftoynoy kislot)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 4, pp 492-495 (USSR)

ABSTRACT: The structural formula of the methyl ester of 2,3-oxynaphthoic acid (I) suggests that an intramolecular hydrogen bond is possible. In the methyl ester of 2,3-methoxynaphthoic acid (II) such a bond is not possible. Bergman et al (Ref 1) used the electronic absorption spectra of I and similar compounds to show that there is an intramolecular hydrogen bond in I. To check Bergman's work the present authors obtained fluorescence spectra of I and II. The experimental technique and the apparatus were described in an earlier paper (Ref 4). A photomultiplier FEU-22 was used to record fluorescence spectra in the red region. Both esters were prepared by synthesis from 2,3-oxynaphthoic acid employing the usual method. Figs 2 and 3 show the fluorescence spectra of I in ethanol, benzene and in ethanol-alkaline solvents. Fig 5 shows the fluorescence spectrum of I in crystal form.

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Some Peculiarities of Luminescence of Ortho-Disubstituted Aromatic Hydrocarbons. II. Fluorescence of the Methyl Esters of 2,3-oxynaphthoic and 2,3-methoxynaphthoic acids

Fig 6 gives the fluorescence spectra of II in benzene and ethanol. The appearance of three fluorescence bands in the spectra of the methyl ester of 2,3-oxynaphthoic acid confirms the presence of an intramolecular hydrogen bond in that substance. The methyl ester of 2,3-methoxynaphthoic acid has only one fluorescence band, which is hardly affected by the solvent used; this substance has no intramolecular hydrogen bond. The energy of the intramolecular hydrogen bond in I was estimated from its infrared absorption spectrum in the region of valence vibrations of the hydroxyl group (Fig 7). The OH valence vibration at 3280 cm^{-1} is seen to be displaced towards longer wavelengths compared with the valence vibrations of free hydroxyl. Using Shigorin's data (Ref 5) the intramolecular hydrogen bond energy was estimated to be 5.0 kcal/mole. There are 7 figures and 6 references, 2 of which are Soviet, 3 German and 1 English.

SUBMITTED: February 6, 1958

Card 2/2

SOV/48-23-1-2/36

24(7)
AUTHORS: Naboykin, Yu. V., Zadorozhnyy, N. A., Pavlova, Ye.N.

TITLE: On Some Particular Features of the Luminescence of Ortho-oxy-substituted Aromatic Hydrocarbons (O nekotorykh osobennostyakh lyuminestsentsii orto-oksizameshchennykh aromaticheskikh uglevodorodov)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 1, pp 9-14 (USSR)

ABSTRACT: The dependence of the luminescence properties of organic molecules on their chemical structure is known. The influence exercised by hydrogen bonds upon the luminescence of organic substances has hitherto not yet been clarified or is still known very insufficiently. Mataga (Refs 3,4) found that fluorescence bands are shifted towards the long-wave range of the spectrum due to the production of intermolecular hydrogen bonds. In the present paper the absorption and luminescence spectra in various solvents were investigated with double-substituted derivatives of benzene and naphthalene. Hydrogen bonds were found in part of these substances. In the other part such bonds could not be produced. The data and the

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On Some Particular Features of the Luminescence of Ortho-oxy-substituted Aromatic Hydrocarbons

value calculated for the energy of the hydrogen bond are given in a table. The absorption and fluorescence spectrum of salicylic acid anilide in heptane and sodium ethanolate as well as that of 1-oxy-2-acetyl naphthalene in heptane and a concentrated alcoholic KOH solution are presented in figures. The former shows a distinct shift of the luminescence spectrum from the long-wave to the short-wave range during the transition from the neutral to the basic medium. A shift occurs also in the latter, to which an opposite one corresponds in the absorption spectrum. It indicates that it depends in a high degree on the pH-value of the solvent. If there is no free OH group contained in the substance, no shift takes place in the spectra by changing the solvent. Substances containing a carboxylic acid tend towards dimerization whereby a weak hydrogen bond is formed. For that reason, a shift of the fluorescence bands - which otherwise corresponds to the crystalline form - towards the long-wave range takes place in the weakly acid medium of a concentrated solution. This confirms the presence of a hydrogen bond. The authors tried to explain hypothetically the mechanism of the formation of a fluorescence-

band shift towards the long-wave range. The excited molecule produces a hydrogen bond which is continuously destroyed and restored during the radiation. Thus, the energy of radiated quanta is reduced and the fluorescence bands are shifted towards the long-wave range of the spectrum. D. N. Shigorin offered a discussion on this lecture which was delivered on the occasion of the 6th Congress on Luminescence. D. N. Shigorin illustrated from the view of the electronic theory how the spectrum is influenced by the hydrogen bond.
There are 2 figures, 1 table, and 8 references, 3 of which are Soviet.

S/051/60/008/005/010/027
E201/E491

AUTHORS: Naboykin, Yu.V., Zadorozhnyy, B.A. and Pavlova, Ye.N.

TITLE: Characteristics of Luminescence of Ortho-Disubstituted Aromatic Hydrocarbons. III. Fluorescence and Absorption Spectra of Some Carboxylic Acids

PERIODICAL: Optika i spektroskopiya, 1960, Vol.8, No.5, pp.657-662

TEXT: Fluorescence of substances with internal hydrogen bonds, formed by a hydroxyl group attached directly to an aromatic ring, were dealt with in Parts I and II (Ref.1 and 2). The present paper deals with the effect of ionization, of internal hydrogen-bonds and of dimer formation on the electronic absorption spectra and on fluorescence of some substituted carboxylic acids. The experimental procedure and the apparatus used were the same as those described in Part I (Ref.1). Special attention was paid to the purity of substances. Some of the results obtained are presented in Fig.1 to 3 and a table on p.659. Fig.1 and 2 show respectively the absorption and fluorescence spectra of solutions of 2,3-oxynaphthoic acid (Fig.1a and 2a), 2,3-methoxynaphthoic acid (Fig.1b and 2b) and 1,4-oxynaphthoic acid (Fig.1B and 2B). The fluorescence spectra of solutions of ortho-methoxybenzoic acid are given in Fig.2B. Fig.3 shows the fluorescence yield of

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S/051/60/008/005/010/027
E201/E491

Characteristics of Luminescence of Ortho-Disubstituted Aromatic Hydrocarbons. III. Fluorescence and Absorption Spectra of Some Carboxylic Acids

2,3-oxynaphthoic acid solutions in ethyl alcohol as a function of the solution concentration. The table on p.659 lists the wavelengths of the fluorescence maxima of 2,3-oxynaphthoic acid solutions in methyl alcohol at pH values from 3 to ≥ 8. Differences were found between the fluorescence of 2,3- and 1,4-derivatives of naphthalene. Variations of the fluorescence-band parameters were found to be related to the structure of the compounds studied. For example in acids which can form internal hydrogen bonds, fluorescence bands with large Stokes displacements were observed. It was found also that dimerization of acids by means of hydrogen "bridges" displaces fluorescence bands towards longer wavelengths. There are 3 figures, 1 table and 6 references: 4 Soviet (1 a translation from English into Russian), 1 English and 1 German.

SUBMITTED: August 12, 1959

Card 2/2

85234

S/048/60/024/006/027/030/XX
B013/B067

24.3500

AUTHORS: Zadorozhnyy, B. A. and Naboykin, Yu. V.

TITLE: Luminescence of Systems With Hydrogen Bonds

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 6, pp. 758-762

TEXT: The authors studied the effect of hydrogen bonds on electron spectra. Fig. 1 shows the change of electron spectra during the formation of a hydrogen bond. A relation could be derived herefrom, which was obtained proceeding from the formulas by Pimentel (Ref. 1) and reads as follows: $\Delta\nu^{H} = \Delta\nu + (\omega_0 + \omega_1)$ (5) $\Delta\nu$- Stokes' shift in the absence of a hydrogen bond; $\Delta\nu^{H}$ - Stokes' shift after the formation of the hydrogen bond; ω_0 - Frank - Condon disturbance of the vibrations connected by the hydrogen atom bridge (for the electron ground state); ω_1 - the same for the excited state of the system. In the case of Stokes' excitation, the quantities ω_0 and ω_1 are always positive. Therefore, the following conclusion may be drawn from formula (5): Due to the formation of both inter- and intra-

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